5.0 Glossary

Abandonment: Permanent closure of a road to restore natural drainage, prevent

erosion, and prevent vehicle access.

Abiotic: Absence of life or living organisms. Examples of abiotic causes of

tree damage include drought, flooding, fire and chemicals.

Aggradation: A local accumulation of sediment that raises the grade or level in

an aquatic environment.

Alevin: The developmental stage following hatching of larval salmon.

Alluvial: Sediments deposited by flowing water.

Anadromous: The tendency of a fish to feed in saltwater and breed in freshwater.

Anti-aggregant pheromone:

An insect communication chemical which spreads the message to

disperse or move away from the source of the message.

Aquatic Small animals living all or part of their lives within the aquatic

macroinvertebrates: environment (e.g., insects, worms, mites, etc.).

Aquifer: A formation of permeable rock, sand or gravel that contains or

conducts groundwater.

Artifact: Portable object produced by human activity.

Autotrophic: An organism whose source of energy comes from the sun.

B.P.: Before Present.

Bedload: That part of a stream's sediment load that moves along the bottom.

Biomass: The amount of living matter in a given habitat, expressed either as

the weight of organisms per unit area or as the volume of

organisms per unit volume of habitat.

Biotic: Pertaining to life or living beings. Examples of biotic causes of tree

damage include animals, insects, fungi and bacteria.

Block glide: A generally deep-seated, slow slope movement process, in which a

relatively intact mass of soil and/or rock moves downslope without

rotation along a planar or gently undulating surface of rupture.

Borrow pit: A small, local site that is a source of fill material such as dirt or

gravel.

Carbon credit: Measured amount of carbon captured by human activities,

recorded against a carbon ledger (as opposed to a carbon debit, i.e., a measured amount of carbon released by human activities, also

recorded against a carbon ledger).

Carbon Transformation of carbon into forms temporarily or permanently

incapable

sequestration: of contributing to atmospheric carbon stocks.

Certification: Continual assessment process in which forest management

practices (and wood processing activities) are assessed against a set of explicit criteria developed to ensure externally recognized

practice standards are achieved and maintained.

Cobble: The sediment particle size (2.5-10 inches in diameter) that is larger

than gravel, but smaller than a boulder.

Concave: A geometric form curved downward (converging).

Convex: A geometric form curved upward (diverging).

Culturally-modified A CMT is a tree that has been altered by native peoples as part of

their

trees (CMT): traditional use of the forest. These trees are protected by law and

have been found eligible for inclusion on the National Register of

Historic Places.

Debris flow: A generally shallow, rapid slope movement process consisting of

the downslope movement of a mass of soil, rock, vegetation and other debris as a slurry, usually having roughly the consistency of

wet concrete.

Debris slide: A generally shallow, slow to rapid slope movement process

consisting of the downward movement of predominantly

unconsolidated soil, rock, vegetation and other debris in which the

mass slides or rolls forward.

Debris torrents: The sudden movement of saturated soil and organic debris caused

by the failure of a temporary obstruction within a stream channel.

Detritus: Fine particulate organic matter (e.g., leaves, twigs, bark, etc.).

Discount rate: Substitution of current consumption for future consumption,

reflecting a measure of an underlying willingness to defer

consumption to a future time, i.e., the price or cost of time. A 10 percent annual discount rate indicates that \$1.00 now will be worth \$1.10 in one year's time (or *vice versa*) or, alternatively, that \$1.00 in one year's time is worth \$0.91 now (or *vice versa*).

Eddies: An extremely low velocity area along the margins of a stream.

Egg pocket: The subgravel location of most of a salmon's deposited eggs.

Emergence: The time when salmon fry exit the gravel environment.

Entomb: death.

To physically restrict the emergence of salmon fry to the point of

Entrenchment: Deep and narrow erosion of the streambed.

Epizootic: A disease that causes a population to rapidly and precipitously

decline.

Ethnographic: Native cultures documented during and after Euro-American

contact.

Euro-American: North American people deriving from European or primarily

European cultures.

Evapotranspiration: Loss of water from the soil both by evaporation and by

transpiration from plants.

Fan channels:

delta.

The division of a stream channel into many subchannels across a

Features: Non-portable objects or relationships produced by human activity.

Fines: Sand sized sediment smaller than 0.850 mm diameter.

Foliated: Pertaining to a metamorphic rock texture consisting of flattened

layers of mineral grains.

Fry: The juvenile salmon before it has gone through a winter in

freshwater.

Full bench road: A road constructed on a side hill without using any of the material

removed from the hillside as part of the road.

Gear storage sites: Areas where ceremonial objects are stored.

Geomorphic unit: A unit of geological classification.

Glacial outwash: Sediment that washes off a glacier.

Glaciofluvial: Pertaining to meltwater streams flowing from glaciers, or to the

deposits made by such streams.

Glaciolacustrine: Pertaining to, derived from, or deposited in glacial lakes.

Glaciomarine: Pertaining to, derived from, or deposited in the oceanic

environment.

Gravel (Pebble): The sediment particle size (0.1-2.5 inches in diameter) that is

larger than sand, but smaller than a boulder.

Hydric: Characterized by, relating to, or requiring an abundance of water;

available moisture is above climatic inputs because of

topographical and/or soil features.

Hydrograph: A graph of water elevation or stream discharge against time.

Hydrologic The age of a managed forest when it has produced sufficient

structure so

maturity: that soil water use, crown interception of precipitation, and the

forests' influences on snow accumulation and melt will not change

significantly in the future.

Hydrostatic The force exerted by a column of water, whether in a standing

body of

pressure: water, in a crack, fissure, or within a water-bearing zone in soil or

rock.

Infiltration: The movement of water from the soil surface into the soil.

Intermediate pole Removal of timber suitable for the manufacture of utility poles.

The

harvest: silvicultural objective of a pole sale is to capture high prices

associated with a high value timber market while maintaining the

productivity of the existing forest stand.

Large woody Waterborne organic material that is at least six feet long and four

inches in

debris: diameter at its narrowest point.

Late thinnings or Removal of a portion of a stand while retaining the commercial

status of

the residual stand. Operations typically occur in well-differentiated partial cuts:

> stands with a range of tree size and crown classes; individual tree characteristics are generally the primary method of tree selection.

Lithified: Changed to stone; in particular, changed from loose sediment to

sedimentary rock.

Mass wasting: The downslope movement of soil or rock material under the

influence of gravity without the direct aid of other media such as

water, air or ice.

Metamorphic rock: Derived from pre-existing rock by mineralogical, chemical and/or

structural changes, essentially in the solid state, in response to marked changes in temperature, pressure, shearing stress and chemical environment, generally at depth in the earth's crust.

Metasedimentary: Sedimentary rock that has been subjected to some degree of

mineralogical, chemical or structural alteration.

Monoculture: A plant community, crop or forest stand that is composed of or

significantly dominated by just one species.

Mycorrhizae: The mutually beneficial association between a fungus and the roots

of a plant; a mycorrhizal root takes up nutrients more efficiently

than an uninfected root.

Nitrogen fixation: The process of plants converting gaseous nitrogen into chemically

stable compounds.

Nominal: Not adjusted for the effects of changes in prices over time, i.e.,

embodies an inflationary premium.

Nutrient uptake: The extraction of soil nutrients by plant roots.

OAHP: The Office of Archaeology and Historic Preservation is the state

office responsible for archaeological and cultural resources.

100-year site-potential tree height:

The height at which dominant trees within a timber stand are expected to reach the age 100 based on the productivity of the site.

Orographic lifting: Air masses increasing in elevation because of mountainous terrain.

Orphaned forest

roads:

Old roads or railroad grades that are no-longer used or properly maintained. Many of these roads are overgrown or closed off, but

have not satisfied the abandonment process.

Parr: The stage of juvenile salmon after the fry stage and before

smoltification.

Partial cuts: See 'Late Thinnings'

Peak flow: The highest instantaneous discharge rate associated with the

streamflow response to precipitation or snowmelt.

Petroglyphs: Symbols or designs (glyphs) pecked or scratched into rock

surfaces. They are formed by using a hard rock to trace or peck shallow grooves on a rock surface. As "glyptic records," they are

protected under RCW 27.44 Indian Graves and Records.

Phyllite: An intermediate-grade metamorphic rock that is slatelike and

crumbly under pressure, composed of microscopic grains

(platelets) of mica, sericite and chlorite.

Planar: Two-dimensional form without curves.

Plane-bed reach: A relatively flat stretch of stream characterized by

gravel/cobble/boulder substrate.

Pools: That stream habitat unit that is generally deeper and slower than

average, and has a smooth glassy surface.

Pore: A small to minute opening or interstice in soil or rock.

Positive pore Static water pressure within the soil that is caused by the

accumulation of

pressure: free water at the interface with a less permeable layer.

Present value: Conversion of costs and returns incurred or obtained at future

times to equivalent values at the current time, by means of a

discount rate.

Primary habitat: A preferred or optimal habitat that predictably supports the highest

population density of a species; that habitat upon which a species is essentially dependent for long-term population maintenance.

Protohistoric: Native American cultures and sites affected by Euro-American

influences.

Real: Adjusted for the effects of inflation, i.e., adjustment of values for

changes in prices over time.

Reconstruction: Road reconstruction describes more extensive work than routine

maintenance. The road geometry may be adjusted in some way or drainage structures installed. In practice, there is some overlap in

what may be maintenance or reconstruction.

Redd: A salmon nest.

Regeneration A harvest designed for the establishment of a new stand to be

managed

harvest: over the next rotation in an even-aged silvicultural system.

Riffle: That stream habitat unit that is generally shallower and faster than

average, and has a rippled surface.

Rip rap: Large erosion resistant material (i.e., boulders), used along

waterways to prevent erosion.

Riparian ecosystem: The forest corridor along waterways that includes the aquatic and

riparian zones, and an upland zone of direct influence.

Ritual bathing

areas:

Areas used in purification rituals.

Road maintenance Washington law (WAC 222-24-051) requires that forest

landowners assess

and abandonment all active and orphan roads on their ownership by 2005. All active

roads

plan: must meet current legal standards by 2015. As road systems are

assessed, landowners submit a plan – referred to as an RMAP – for

accomplishing the maintenance and abandonment work.

Road prism: The cross section of the road, including the traveled surface, ditch,

cutbank and fillslope.

Rock clasts: Rocks composed principally of fragments derived from pre-

existing rocks or minerals and transported some distance from the

places of origin.

Salvage: Timber removal with a primary purpose of removing damaged

material. It may be intended to recover value and/or prevent

additional losses

Scour: Erosion of the streambed during high flow events.

Secondary habitat: A habitat that is used by a species, but is clearly less suitable than

primary habitat, as indicated by a lower population density or less frequent use. A habitat may be designated as secondary where it is known to be used by a species but data are insufficient to clearly

identify it as a primary habitat.

Seral: Relating to a phase in the sequential development of ecological

communities formed in ecological succession in a particular habitat

and leading to a particular climax association; intermediate

communities in an ecological succession.

Side-cast: The material from a road cut that is placed on the downslope side

and usually made part of the road prism.

The snake-like meandering configuration of rivers and streams. **Sinuosity:**

usually expressed as actual river mile distance divided by straight

down-valley distance.

Slash treatment: Manipulation of logging residue in order to minimize risk or

negative consequences associated with its form or presence.

The gradual downslope movement of soil, caused by gravity. Slope creep:

Slope inclination: The deviation of the ground surface from horizontal, which is

generally expressed in percent (vertical distance divided by

horizontal distance, multiplied by 100).

Slope movement: The downslope transport of masses of soil and rock materials by

gravity, including the general categories of soil, rock and debris

falls, flows, slides and lateral spreads.

A generally deep-seated, slow slope movement process, in which a Slump:

relatively intact mass of soil and/or rock slides downslope along a curved surface of rupture, with backwards rotation along a more or

less horizontal axis parallel to the slope.

Smallwood Timber removal from a commercial stand that benefits the growth thinnings:

potential of the stand. These typically occur in stands 25-35 years

old with little crown differentiation. Spacing and/or stocking

guidelines are the primary method of tree selection.

Soil water-holding The maximum amount of water, usually expressed as depth per

unit area.

capacity: that the soil can hold against gravity.

Spirit quest sites Traditional culture participants sought, and seek, supernatural

power and

spiritual guidance in specific areas. These are known as spirit quest and traditional

sites.

song places:

Stade: A period of time (substage) during a glacial stage marked by a

glacial readvance.

Step-pool reach: A stretch of stream characterized by stair-stepping pool habitats

formed by logs.

Stocking levels: The proportion that any measure of stand density (amount of tree

vegetation in a unit of land area) bears to a wide variety of norms expressed in the same units and chosen for differing purposes,

usually expressed in percentages.

Subduction: The process of one solid portion (plate) of the earth's crust

descending beneath another.

Superimposition: The digging up of an adjacent salmon redd (nest) by another

salmon, usually due to crowed conditions.

Surficial geologic Pertaining to natural phenomena that affect soil and rock materials,

along

processes: with ground and surface water, vegetation, and human

development at or near the ground surface, such as erosion by

wind, water or glacial ice, and slope movement.

Thrust fault: An inclined fracture along which rocks above the fracture appear

to have moved upward with respect to those beneath.

Traditional named Areas on the landscape that were named by Native Americans.

These may

places: be descriptive, or may be the locations of legendary events.

Transpiration: The transmission of water vapor from plant surfaces, such as

leaves.

Tree resilience: The capacity for a tree to recover from damage or injury.

Type 1 waters: All waters inventoried as "shorelines of the state."

Type 2 waters: Waters that are not classified as Type 1 waters and have high fish,

wildlife or human use.

Type 3 waters: Waters that are not classified as Type 1 or Type 2 waters and have

moderate to slight fish, wildlife or human use.

Type 4 waters: Waters that are perennially non-fish habitat.

Type 5 waters: Waters not typed as Type 1, 2, 3 or 4 waters.

Unmanaged condition:

The forest that existed before human influence.

Water balance: An accounting over a specified time period of the inflow, outflow

and storage changes within a watershed, water body or soil

column.

Water year: The 12 month period from October 1 through September 30 that is

usually referred to by the calendar year number for the January 1 through September 30 portion of the period (i.e., Water Year 2002

is October 1, 2001 - September 30, 2002).

Wet site: Site where natural conditions prevent deterioration of normally

perishable artifacts.

Yarding: Act or process of conveying logs to a landing.